#### REMARKS

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Applicants' undersigned attorney thanks the Examiner for the Examiner's comments. Applicants respectfully request reconsideration of this patent application, particularly in view of the above Amendment and the following remarks. Currently, Claims 1-35 are pending, with Claims 1-23 and 35 withdrawn from consideration.

### Amendments to the Specification

The specification has been amended at page 3, line 4, to include the reference number "13" following the term "corresponding openings." It is clear from the German priority document, as well as the specification read in conjunction with Figures 1 and 2, that these openings are correctly identified in the figures as reference numeral "13." No new matter has been added by this Amendment.

#### **Amendments to the Claims**

Claims 24-34 have been examined with no claims being allowed.

Claim 24 has been amended to limit the fuel cell to a solid electrolyte fuel cell. Claim 24 has been further amended to include the limitations of the sealing structure being located between two adjacent separators, and using an electrolyte material for applying the insulating layer of the sealing structure. Support for these limitations is provided, for example, at page 10, lines 23-25; page 11, lines 20-21; and in Fig. 1.

Claim 28 has been amended to include the element of forming an electrode layer, pursuant to the Examiner's recommendation.

Claim 30 has been amended by removing the term "the" from the claim, pursuant to the Examiner's recommendation.

No new matter has been added by this Amendment. No additional fee is required because the number of independent claims remains unchanged and the total number of claims also remains unchanged.

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## . Drawing Objections

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As indicated above, the specification has been amended to include the reference number "13" following the term "corresponding openings." The drawings correctly identify reference number "13." Thus, no amendment to the drawings is necessary.

### **Claim Objections**

As indicated above, Applicants have amended Claim 30 by removing the term "the" from the claim pursuant to the Examiner's recommendation.

### Claim Rejections - 35 U.S.C. §112

#### A. First Paragraph

The rejection of Claims 24-34 under 35 U.S.C. §112, first paragraph, as failing to comply with the enablement requirement is respectfully traversed.

As indicated above, Applicants have amended Claim 24 to limit the fuel cell to a solid electrolyte fuel cell. Accordingly, Applicants respectfully request reconsideration and withdrawal of this rejection.

## B. Second Paragraph

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The rejection of Claims 28, 32, and 33 under 35 U.S.C. §112, second paragraph, as being incomplete for omitting essential elements is respectfully traversed.

As indicated above, Applicants have amended Claim 28 to include the element of forming an electrode layer, thereby filling in the gap between elements identified by the Examiner. Accordingly, Applicants respectfully request reconsideration and withdrawal of this rejection.

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#### Claim Rejections - 35 U.S.C. §102

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#### A. Sato et al.

The rejection of Claims 24-29 and 31-33 under 35 U.S.C. §102(b) as being anticipated by Sato et al. (U.S. Patent No. 4,937,152) is respectfully traversed.

For a reference to anticipate a claim, the reference must disclose each and every element or limitation of the claim. Sato et al. fail to disclose each and every element or limitation of amended Claim 24.

The Sato et al. reference concerns a high-temperature fuel cell with an air electrode, an electrolyte and a fuel electrode, wherein with respect to Figures 4 and 5 it is described that the air electrode is sealed by the electrolyte. The air electrode is in contact with the separator plate (3) and the air electrode is to be sealed by the electrolyte. The reason for this is to prevent the air electrode from contacting the electrolyte. In the present invention, however, the electrolyte layer is not used as a sealing layer but as an insulating layer to insulate two adjacent separator plates from each other. Sato et al. fail to disclose dividing the spacers (10) between a sealing layer and an insulating layer, wherein the insulating layer is formed from an electrolyte material.

For at least the reasons given above, Applicants respectfully submit that the teachings of Sato et al. fail to disclose Applicants' claimed invention. Accordingly, reconsideration and withdrawal of this rejection is respectfully requested.

#### B. Mizuno

The Examiner has identified U.S. Patent No. 6,440,598 as being issued to Mizuno. However, U.S. Patent No. 6,440,598 was issued to Fukui, Matsuno, and Saito, and is directed to fuel cell technology. It appears that the intended reference is U.S. Patent No. 6,440,597 issued to Mizuno; therefore, Applicants will address this rejection based on the Mizuno ('597) reference.

The rejection of Claims 24 and 30 under 35 U.S.C. §102(b) as being anticipated by Mizuno (U.S. Patent No. 6,440,597) is respectfully traversed.

Mizuno fails to disclose each and every element or limitation of amended Claim 24. More particularly, Mizuno fails to disclose the steps of applying

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both an insulating layer and a sealing layer onto at least one predetermined sealing area of a separator plate, wherein an electrolyte material is used to build up the

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insulating layer of the sealing structure.

For at least the reasons given above, Applicants respectfully submit that the teachings of Mizuno fail to disclose Applicants' claimed invention. Accordingly, reconsideration and withdrawal of this rejection is respectfully requested.

# C. Thompson et al.

The rejection of Claims 24 and 34 under 35 U.S.C. §102(b) as being anticipated by Thompson et al. (PCT Publication No. WO 99/54131) is respectfully traversed.

The objective task of the subject application is to provide a fuel cell and a method for producing the fuel cell, wherein an effective sealing is provided that can be produced at low cost. The inventive solution of the present invention is to use the electrolyte material of the fuel cell as the sealing. Thompson et al. fail to disclose such use of an electrolyte material.

The present invention makes it possible to use the material that is necessary for building the fuel cell as an insulating layer and part of the sealing of the fuel cell. This simplifies the manufacturing of the fuel cell because, for example, when applying the electrolyte material on the substrate, the insulating layer of the sealing is produced simultaneously. A change of material that involves possibly a change of the manufacturing method can thus be abolished. The result is a cost advantage compared with manufacturing processes and fuel cells of the state of the art.

For at least the reasons given above, Applicants respectfully submit that the teachings of Thompson et al. fail to disclose Applicants' claimed invention. Accordingly, reconsideration and withdrawal of this rejection is respectfully requested.

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## Conclusion

Applicants believe that this case is now in condition for allowance. If the Examiner feels that any issues remain, then Applicants' undersigned attorney would like to discuss the case with the Examiner. The undersigned can be reached at (847) 490-1400.

Respectfully submitted,

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Melanie I./Rauch

Registration No. 40,924

Pauley Petersen & Erickson 2800 West Higgins Road, Suite 365 Hoffman Estates, Illinois 60169 (847) 490-1400 FAX (847) 490-1403